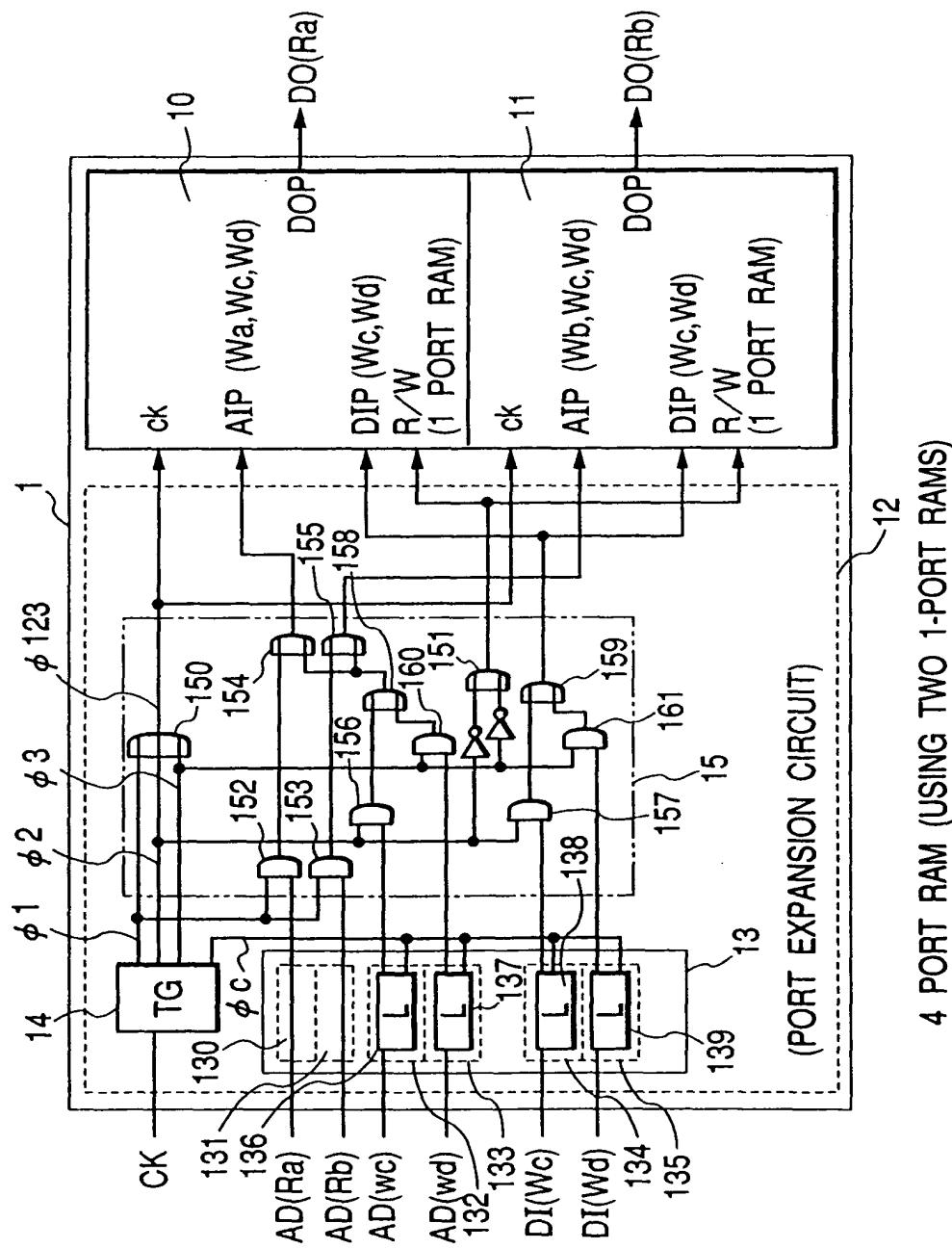


FIG. 1



4 PORT RAM (USING TWO 1-PORT RAMS)

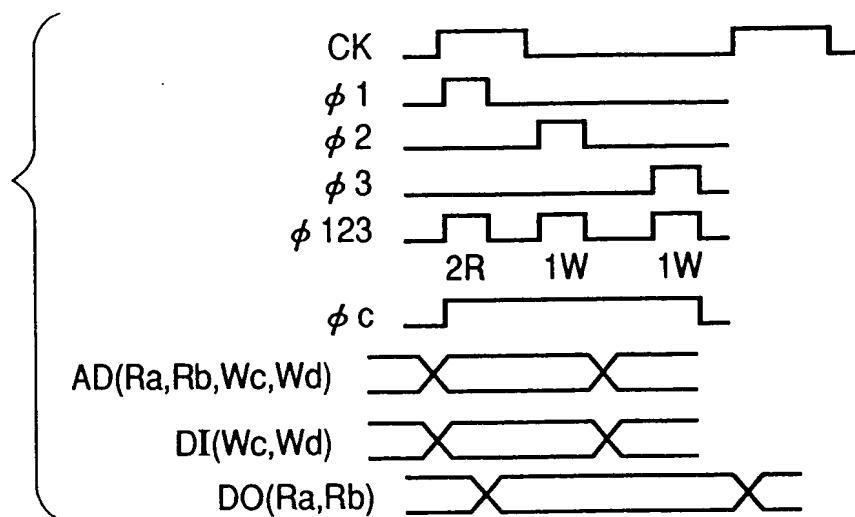
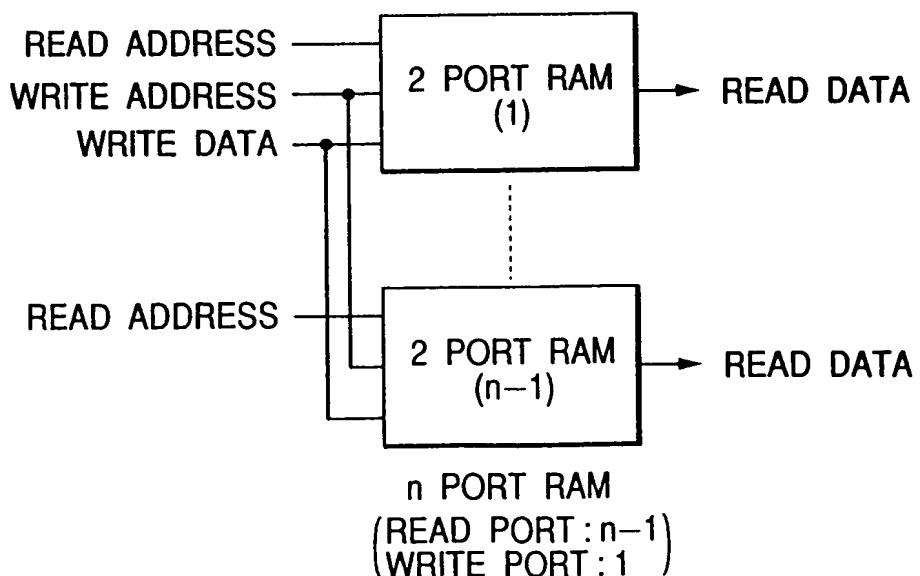
FIG. 2***FIG. 4***

FIG. 3

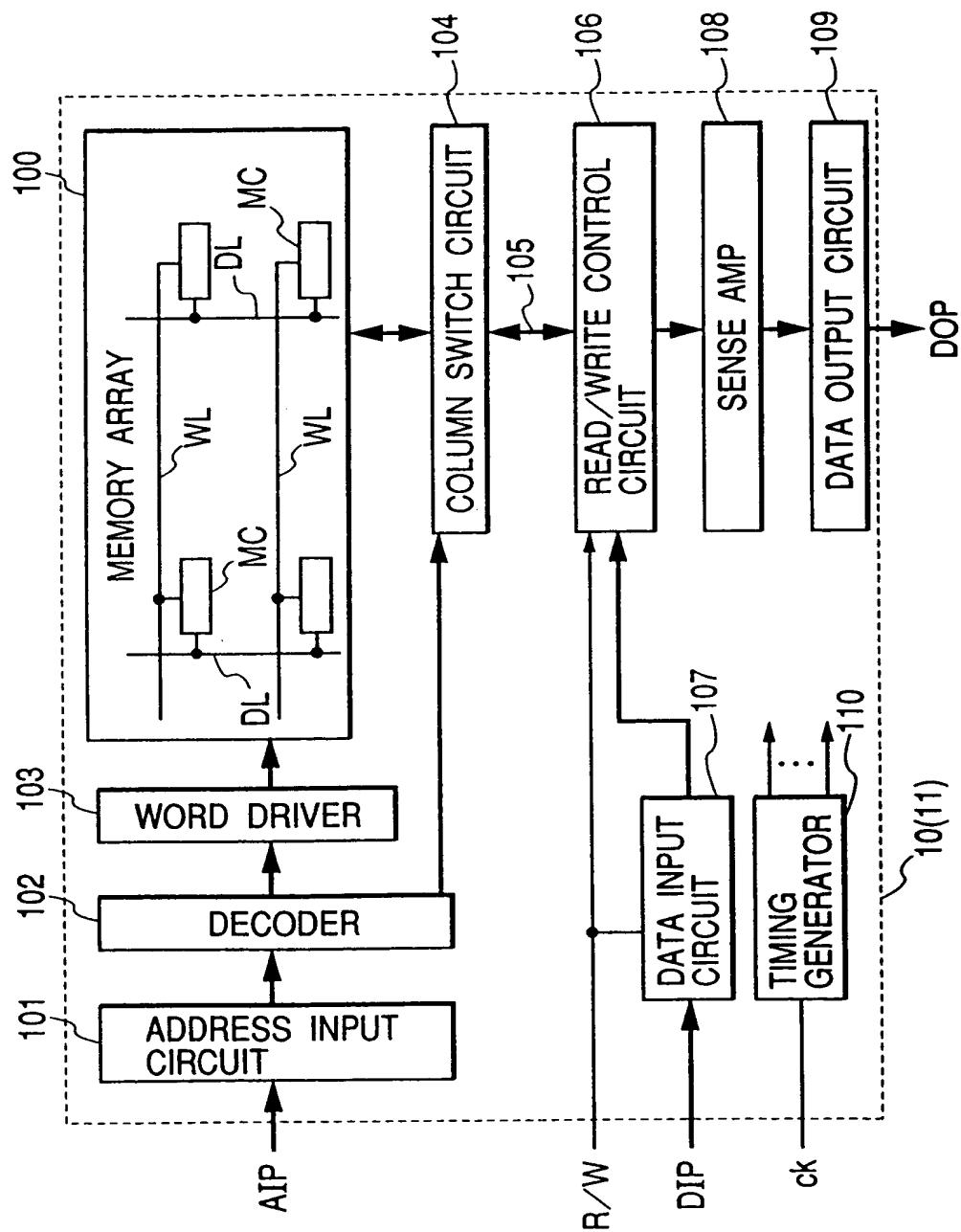


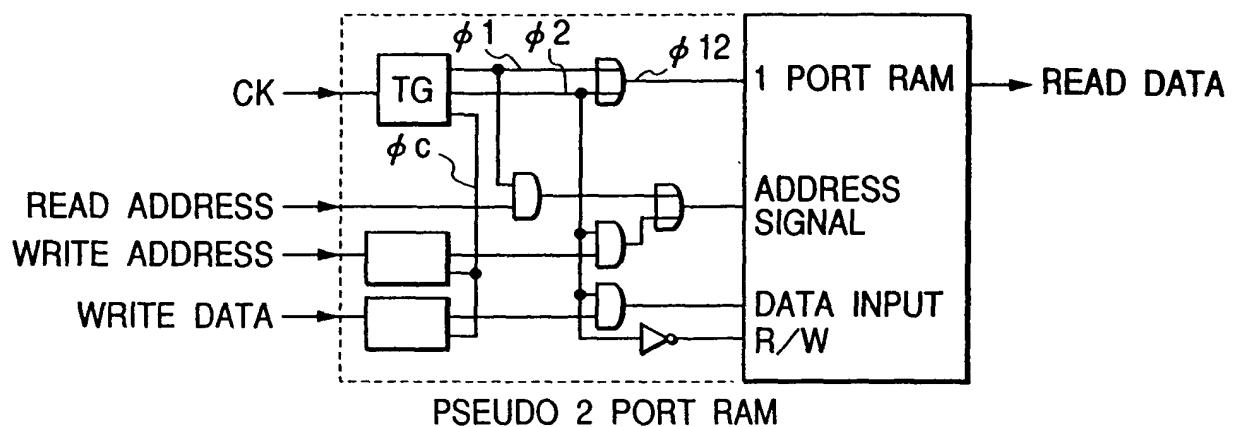
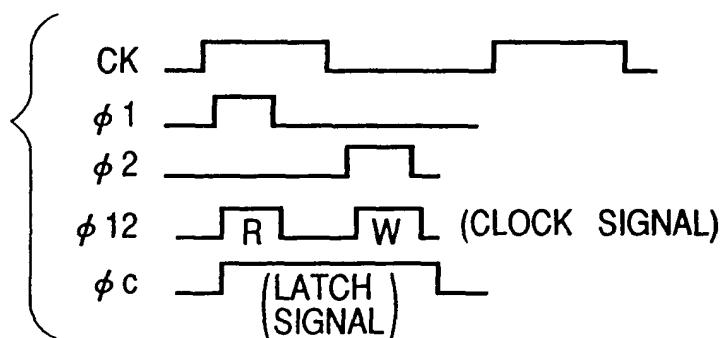
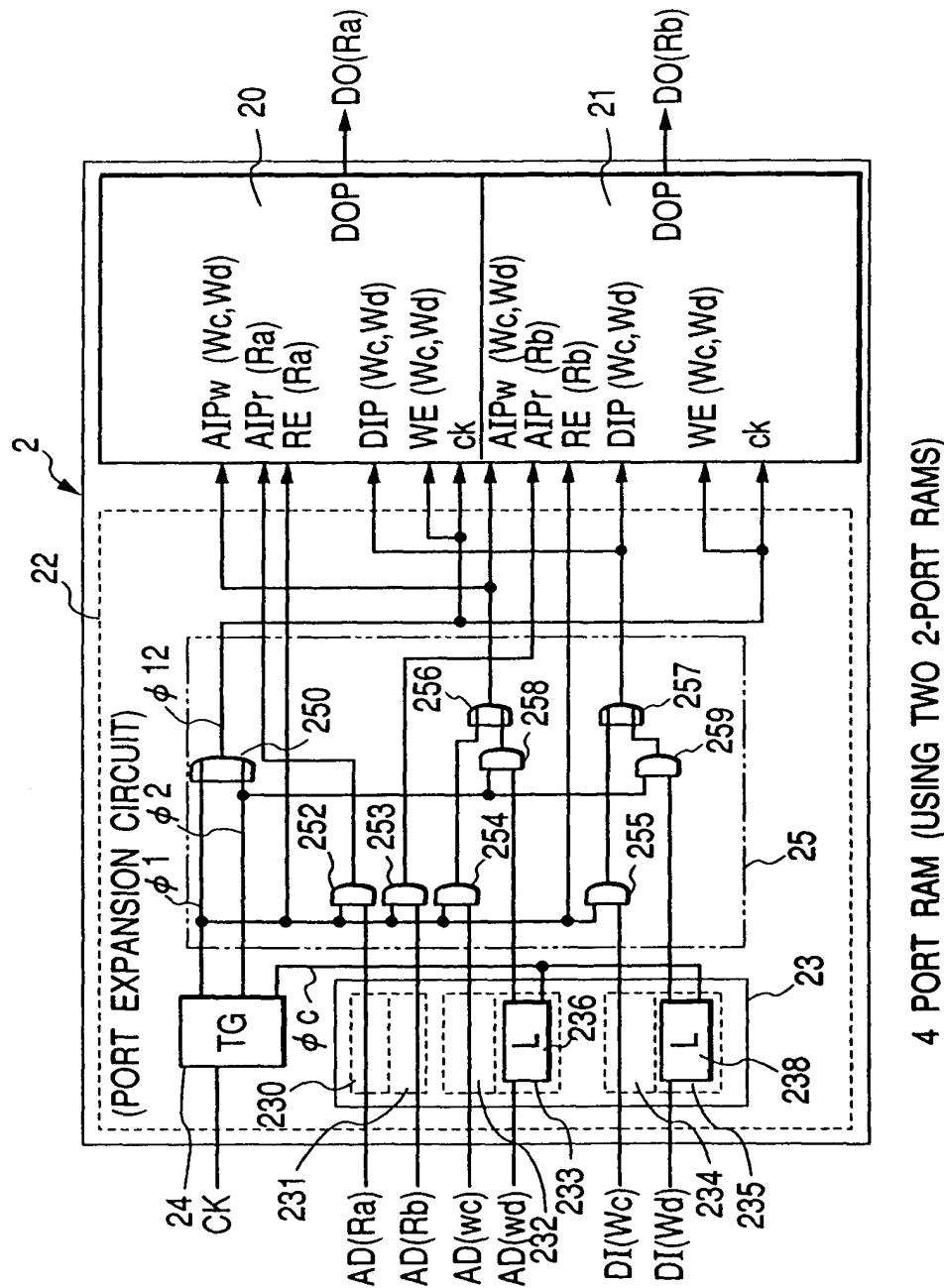
FIG. 5***FIG. 6***

FIG. 7



4 PORT RAM (USING TWO 2-PORT RAMS)

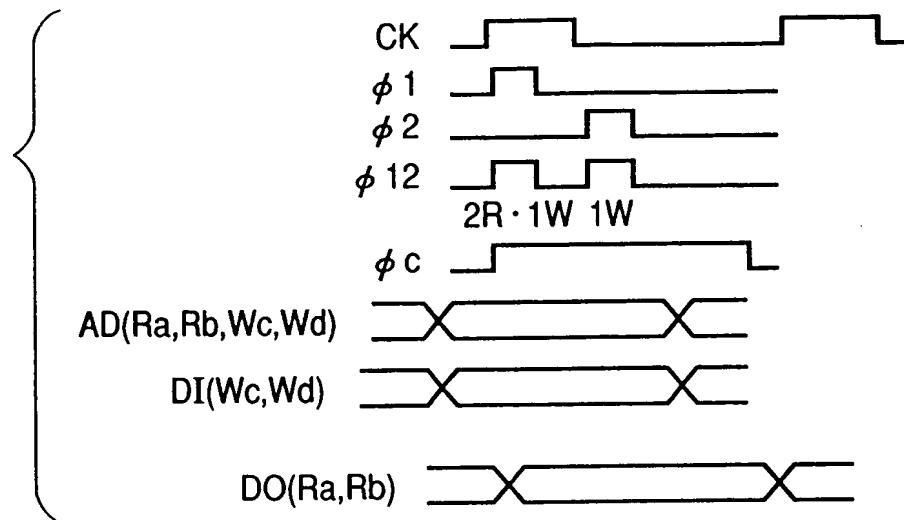
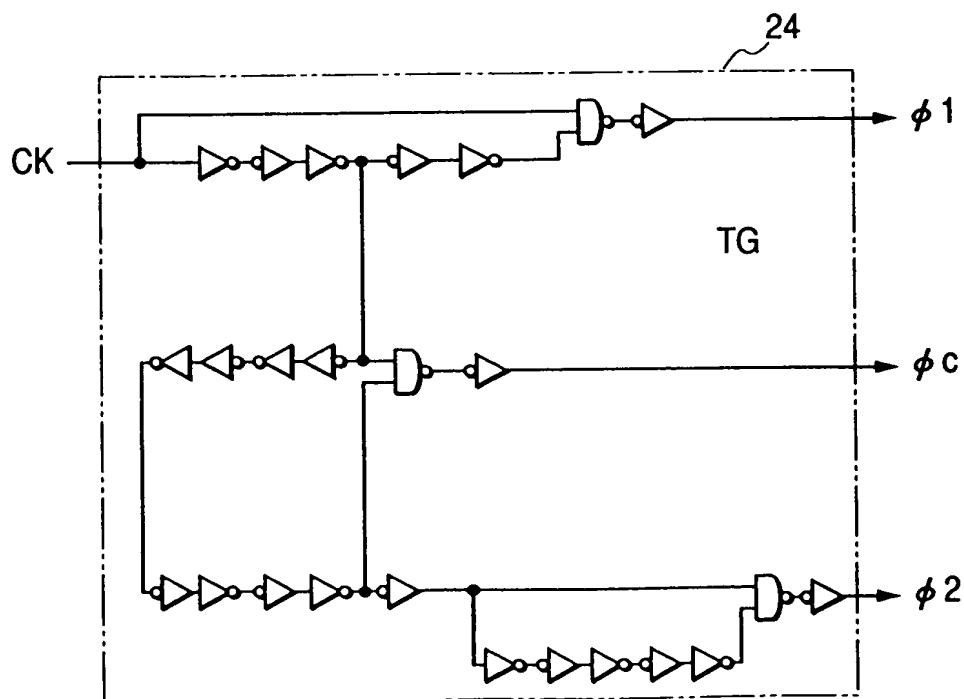
FIG. 8*FIG. 9*

FIG. 10

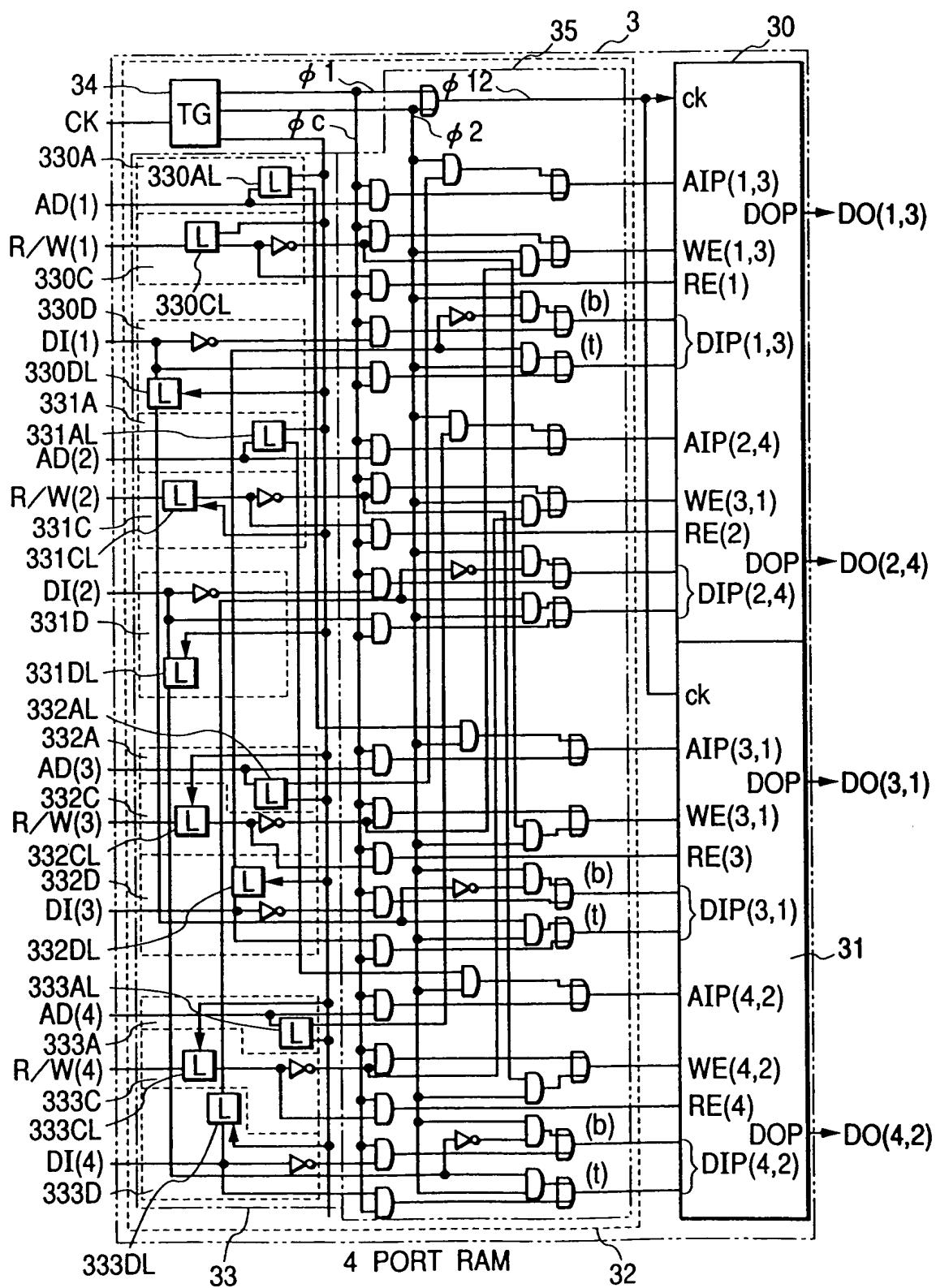


FIG. 11

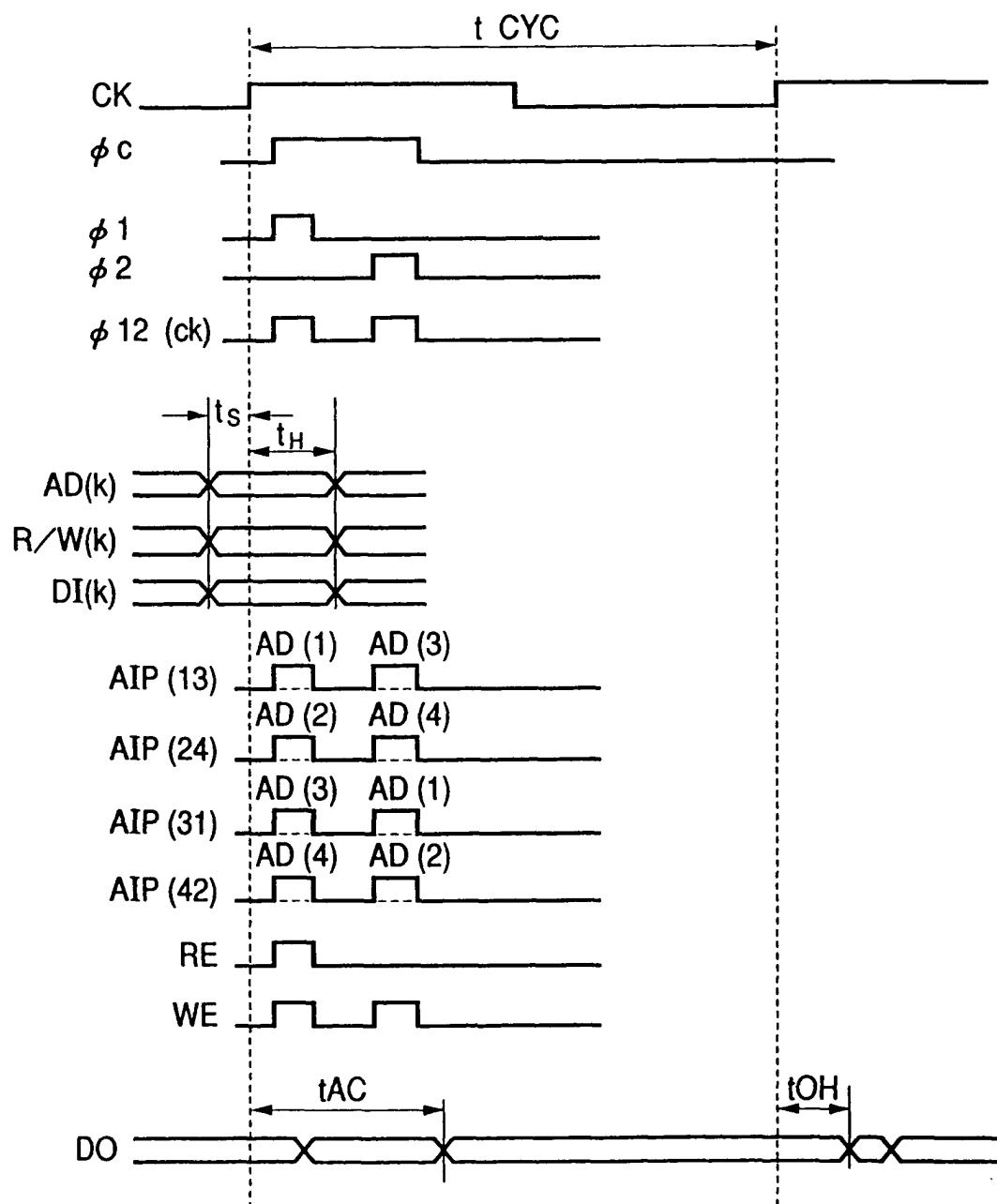


FIG. 12

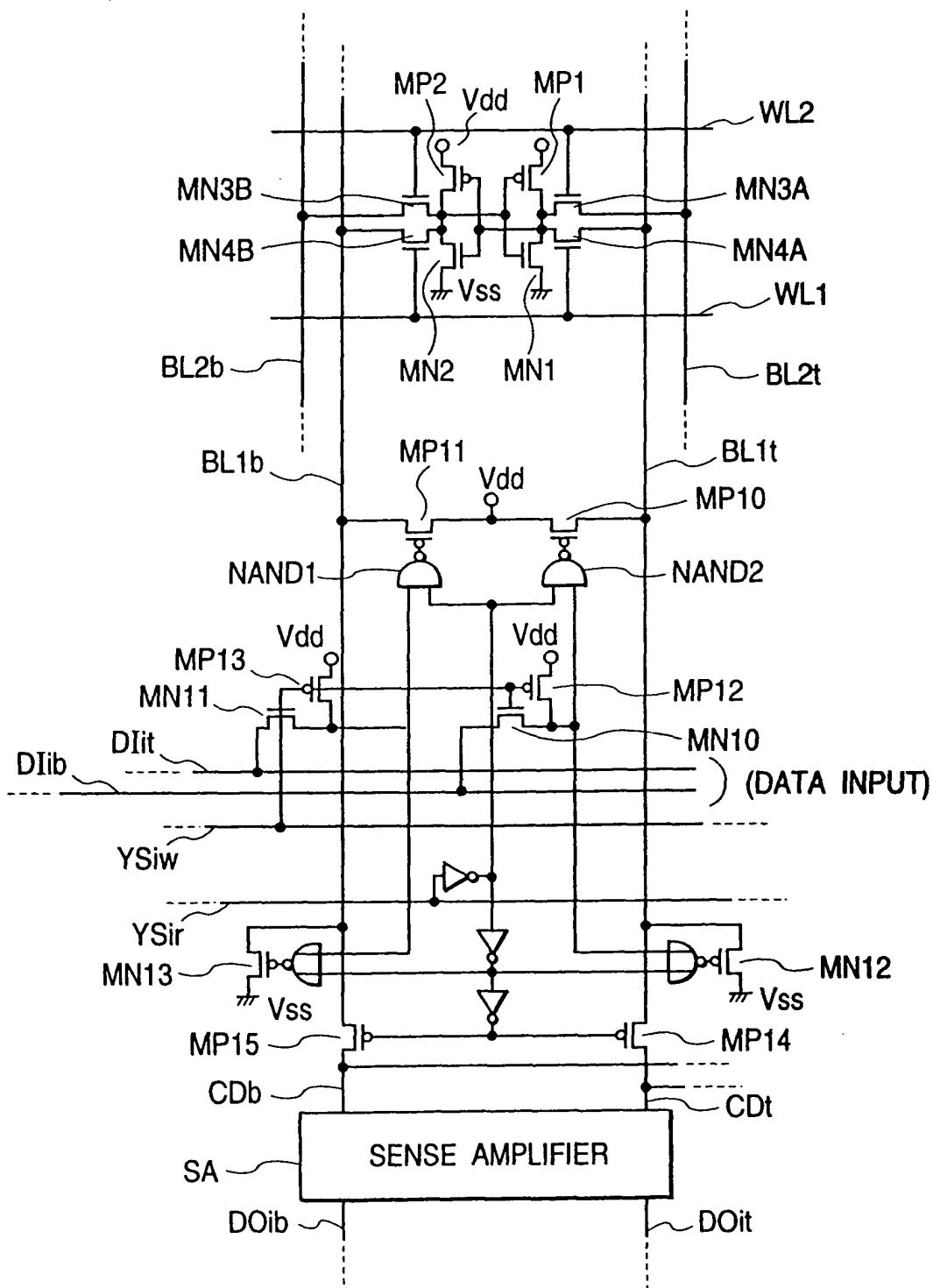


FIG. 13

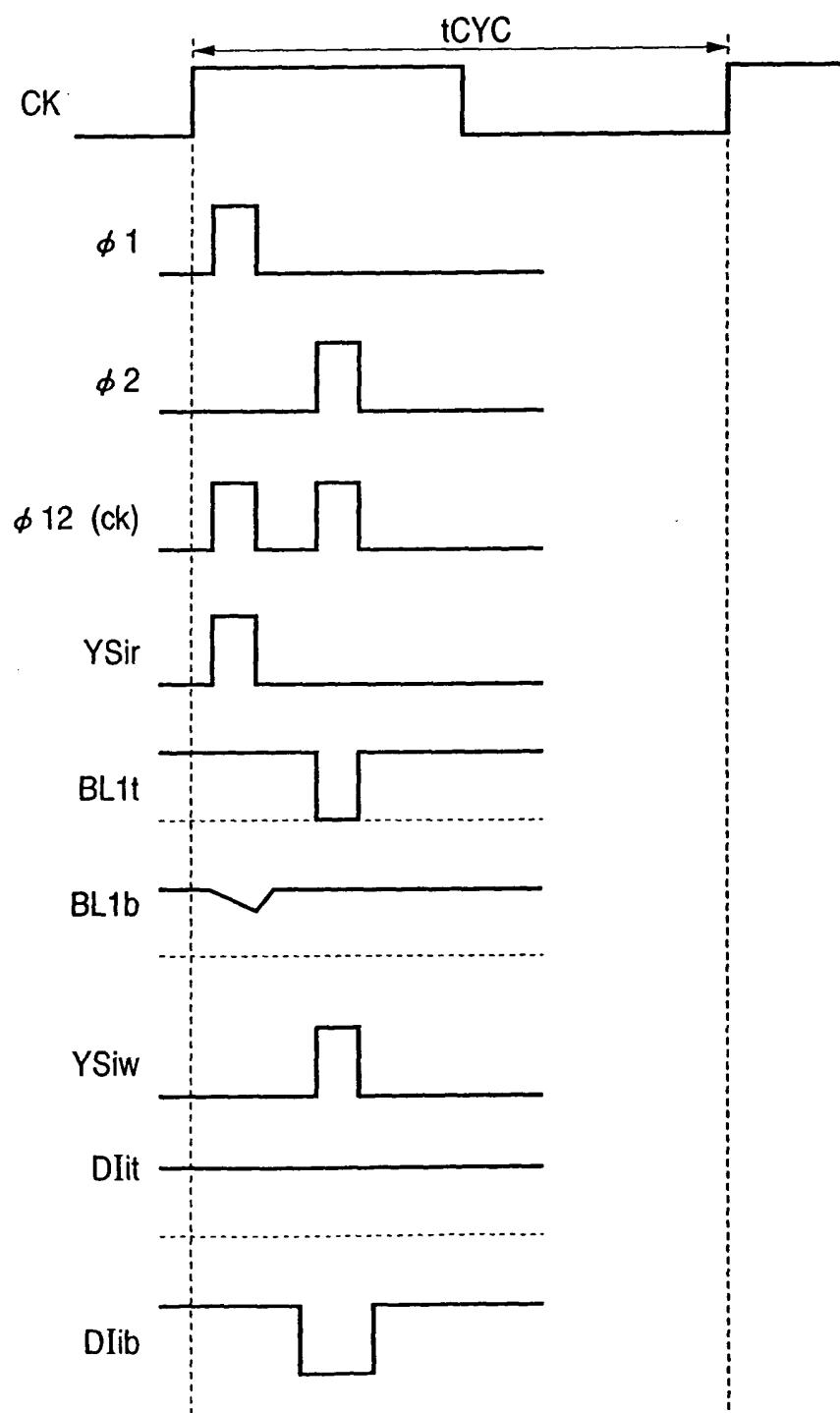


FIG. 14

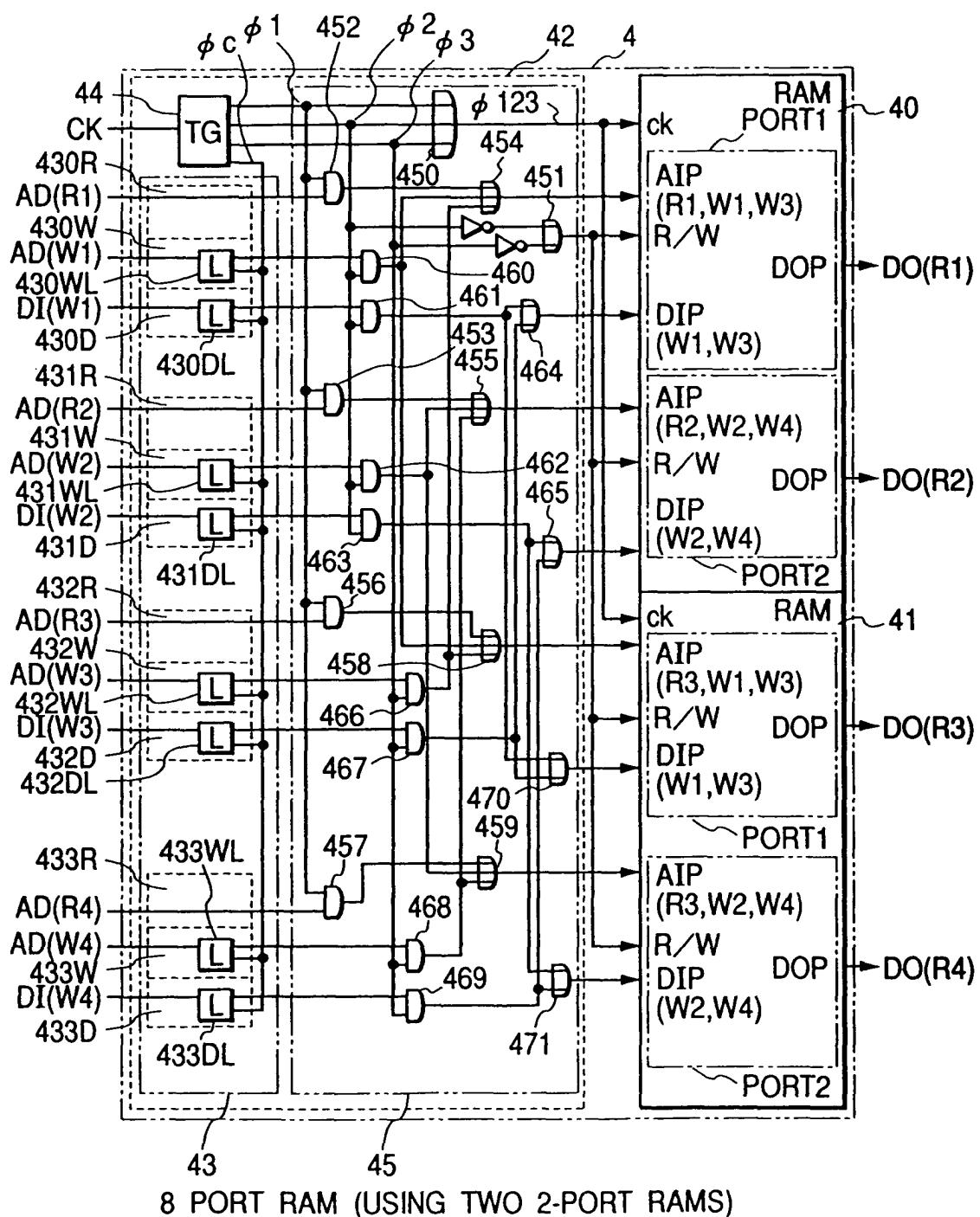
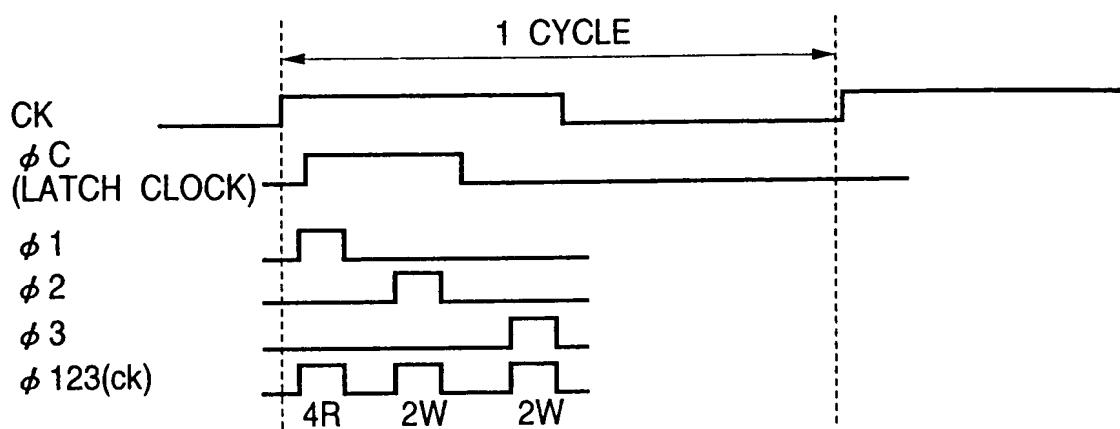


FIG. 15***FIG. 16***

INTERNAL RAM		FIRST (ϕ_1)	SECOND (ϕ_2)	THIRD (ϕ_3)
RAM 40	PORT1	AD (R1) DO (R1)	AD (W1) DI (W1)	AD (W3) DI (W3)
	PORT2	AD (R2) DO (R2)	AD (W2) DI (W2)	AD (W4) DI (W4)
RAM 41	PORT1	AD (R3) DO (R3)	AD (W1) DI (W1)	AD (W3) DI (W3)
	PORT2	AD (R4) DO (R4)	AD (W2) DI (W2)	AD (W4) DI (W4)

FIG. 17

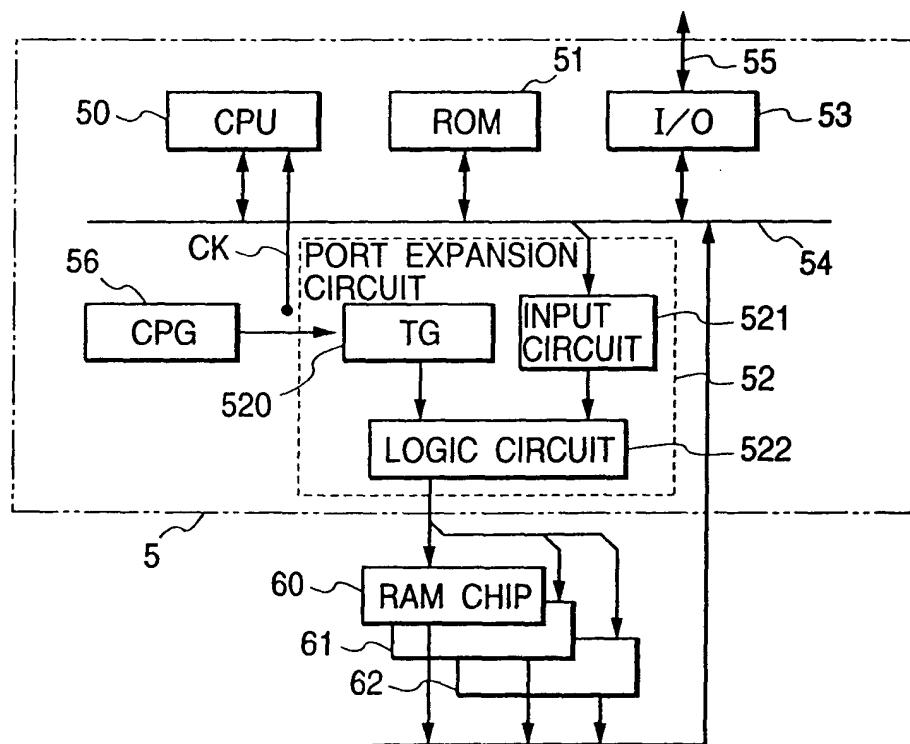


FIG. 18

